

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|----------------------|--|------------------|---------|------------------|
| L1 | 1159 | 514/367.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:16 |
| L2 | 869 | 514/375.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:16 |
| L3 | 332 | 548/179.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:16 |
| L4 | 305 | 548/224.ccls. | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:16 |
| L5 | 2197 | L1 OR L2 OR L3 OR L4 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:17 |
| L6 | 87 | L5 AND PPAR | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:17 |
| L7 | 70 | L5 AND PEROXISOME | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:18 |
| L8 | 93 | L6 OR L7 | US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT | OR | ON | 2007/08/02 12:18 |

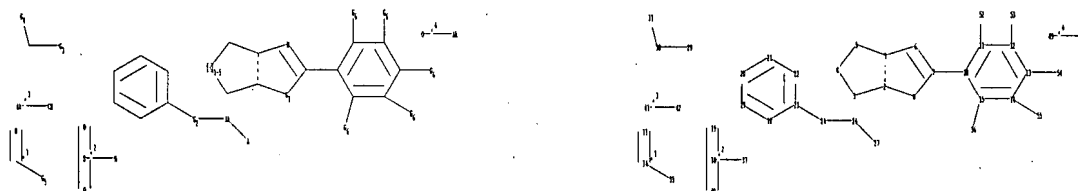
STN Structure Search (Registry/caplus)

10/539,477

08/02/2007,

=>

Uploading C:\Program Files\Stnexp\Queries\10539477\4.str



chain nodes :

24 26 27 29 31 33 34 35 37 38 39 40 41 42 49 50 52 53 54 55 56

ring nodes :

1 2 3 4 5 6 7 8 10 11 12 13 14 15 18 19 20 21 22 23

ring/chain nodes :

30

chain bonds :

7-10 11-52 12-53 13-54 14-55 15-56 23-24 24-26 26-27 29-30 30-31 33-34
34-35 37-38 38-39 38-40 41-42 49-50

ring bonds :

1-2 1-5 1-6 2-3 2-8 3-4 4-5 6-7 7-8 10-11 10-15 11-12 12-13 13-14
14-15 18-19 18-23 19-20 20-21 21-22 22-23

exact/norm bonds :

1-2 1-5 1-6 2-3 2-8 3-4 4-5 6-7 7-8 7-10 11-52 12-53 13-54 14-55
15-56 23-24 24-26 26-27 29-30 30-31 33-34 34-35 37-38 38-39 38-40 41-42
49-50

normalized bonds :

10-11 10-15 11-12 12-13 13-14 14-15 18-19 18-23 19-20 20-21 21-22 22-23

isolated ring systems :

containing 10 :

G1:O,S

G2:O,S,N,SO2

G3:C,O,S,N

G4:[*1],[*2],[*3]

G5:O,S,N

G6:H,OH,CN,NO2,O,X,Ak,[*4]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:Atom 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom
23:Atom 24:CLASS 26:CLASS 27:CLASS 29:CLASS 30:CLASS 31:CLASS 33:CLASS
34:CLASS 35:CLASS 37:CLASS 38:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS
49:CLASS 50:CLASS 52:CLASS 53:CLASS 54:CLASS 55:CLASS 56:CLASS

L7 STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 11:11:45 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 3493 TO ITERATE

57.3% PROCESSED 2000 ITERATIONS

3 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE** ✓
BATCH **COMPLETE**

PROJECTED ITERATIONS: 66316 TO 73404

PROJECTED ANSWERS: 3 TO 241

L8 3 SEA SSS SAM L7

=> d scan

=> d his

(FILE 'HOME' ENTERED AT 10:55:59 ON 02 AUG 2007)

FILE 'REGISTRY' ENTERED AT 10:56:05 ON 02 AUG 2007

L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3
L5 STRUCTURE UPLOADED
L6 38 S L5
L7 STRUCTURE UPLOADED
L8 3 S L7

=> s l7 full

FULL SEARCH INITIATED 11:12:13 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED ✓ 69453 TO ITERATE

100.0% PROCESSED ✓ 69453 ITERATIONS
SEARCH TIME: 00.00.03

86 ANSWERS

L9 86 SEA SSS FUL L7

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

183.80

184.01

FILE 'CAPLUS' ENTERED AT 11:12:24 ON 02 AUG 2007

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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FILE COVERS 1907 - 2 Aug 2007 VOL 147 ISS 6

FILE LAST UPDATED: 1 Aug 2007 (20070801/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/infopolicy.html>

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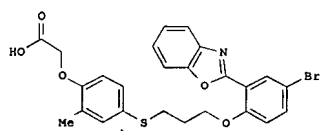
L10 16 L9

=> d ibib abs hitstr 1-16

L10 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:164361 CAPLUS
 DOCUMENT NUMBER: 144:254153
 TITLE: Preparation of benzotriazoles as modulators of PPAR for use in therapy
 INVENTOR(S): Zhu, Yan; Ma, Jingyuan; Cheng, Peng; Zhao, Zuchun; Gregoire, Francine M.; Rakhmanova, Vera A.
 PATENT ASSIGNEE(S): Metabolex, Inc., USA
 SOURCE: PCT Int. Appl., 163 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2006020916 | A2 | 20060223 | WO 2005-US28822 | 20050812 |
| WO 2006020916 | A3 | 20060601 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | | |
| US 2006058301 | A1 | 20060316 | US 2005-202963 | 20050811 |
| EP 1776111 | A2 | 20070425 | EP 2005-785499 | 20050812 |
| R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, AL, BA, HR, MK, YU | | | | |
| PRIORITY APPLN. INFO.: US 2004-601305P P 20040813 | | | | |
| US 2005-202963 A 20050811 | | | | |
| WO 2005-US28822 W 20050812 | | | | |
| OTHER SOURCE(S): MARPAT 144:254153 | | | | |
| GI | | | | |

L10 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The present invention is directed to certain novel compds. represented by Z-K-Ar1-L-Ar2-R1 (wherein Ar1 = (un)substituted monocyclic or bicyclic aromatic ring; Ar2 = (un)substituted 6-membered monocyclic aromatic ring; K and L = linking groups; R1 = a heterocyclic ring) and pharmaceutically acceptable salts, solvates, hydrates and prodrugs thereof. The present invention is also directed to methods of making and using such compds. and pharmaceutical compns. containing such compds. to treat or control a number of diseases mediated by PPAR such as glucose metabolism, lipid metabolism and insulin secretion, specifically Type 2 diabetes, hyperinsulinemia, hyperlipidemia, hyperuricemia, hypercholesterolemia, atherosclerosis, one or more risk factors for cardiovascular disease, Syndrome X, hypertriglyceridemia, hyperglycemia, obesity and eating disorders. For example, I was prepared from [4-(3-bromo-propylsulfanyl)-2-methylphenoxy]acetic acid Et ester and 2-benzoxazol-2-yl-4-bromophenol followed by hydrolysis of the ester formed. In a PPARs transactivation assay, I was a modulator of PPARs, PPARs, and PPARy having an EC50 ≤ 10μM.

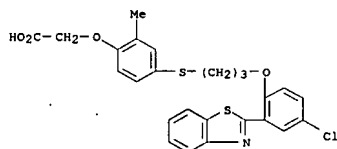
IT 877156-77-9P, [[4-[[[3-(2-benzoxazol-2-yl)-4-chlorophenoxy]propyl]sulfanyl]-2-methylphenyl]oxy]acetic acid 877156-78-0P, [[4-[[[3-(2-benzoxazol-2-yl)-4-bromophenoxy]propyl]sulfanyl]-2-methylphenyl]oxy]acetic acid 877157-07-8P, [[4-[[[3-(2-benzoxazol-2-yl)-4-bromophenoxy]propyl]sulfanyl]-2-methylphenyl]oxy]acetic acid 877157-07-8P, [[4-[[[3-(2-benzoxazol-2-yl)-4-bromophenoxy]propyl]sulfanyl]-2-methylphenyl]oxy]acetic acid R1: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of benzotriazoles as modulators of PPAR for use in therapy)

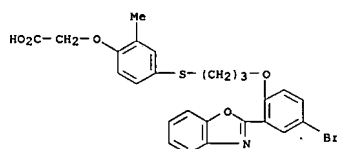
RN 877156-77-9 CAPLUS

CN Acetic acid, [4-[[[3-(2-benzothiazolyl)-4-chlorophenoxy]propyl]thio]-2-methylphenoxy]- (9CI) (CA INDEX NAME)

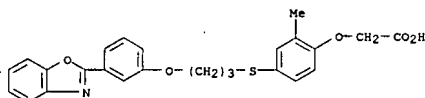
L10 ANSWER 1 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 877156-78-0 CAPLUS
 CN Acetic acid, [4-[[[3-(2-benzoxazolyl)-4-bromophenoxy]propyl]thio]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



RN 877157-07-8 CAPLUS
 CN Acetic acid, [4-[[[3-(2-benzoxazolyl)phenoxy]propyl]thio]-2-methylphenoxy]- (9CI) (CA INDEX NAME)



L10 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:133661 CAPLUS
 DOCUMENT NUMBER: 144:135216
 TITLE: Small molecule pharmaceutical preparations for treating dysmenorrhea and severe rheumatic arthritis pain
 INVENTOR(S): Sun, Tianming; Sun, Meng
 PATENT ASSIGNEE(S): Peop. Rep. China
 SOURCE: Family Shuang Shengqing Gongkai Shuomingshu, 16 pp.
 CODEN: CNXXEV
 DOCUMENT TYPE: Patent
 LANGUAGE: Chinese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|------------------|----------|
| CN 1600370 | A | 20050330 | CN 2003-10103027 | 20031031 |
| PRIORITY APPLN. INFO.: CN 2003-10103027 20031031 | | | | |

AB This invention relates to synthetic small mol. pharmaceutical preps. for relieving spasmodic dysmenorrhea and severe pain caused by rheumatic arthritis. The pharmaceutical preps. contain three effective components including nonsteroidal anti-inflammatory drug, antidepressant, and effective component for alleviating stomach discomfort and diarrhea induced by the medicine.

IT 873201-62-8P

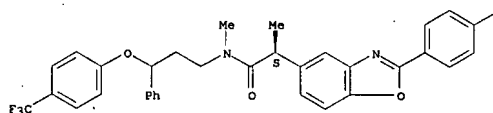
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(small mol. pharmaceutical preps. for treating dysmenorrhea and severe rheumatic arthritis pain)

RN 873201-62-8 CAPLUS

CN 5-Benzoxazolencetamide, 2-(4-fluorophenyl)-N,α-dimethyl-N-[3-phenyl-3-(4-(trifluoromethyl)phenoxy)propyl]-, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



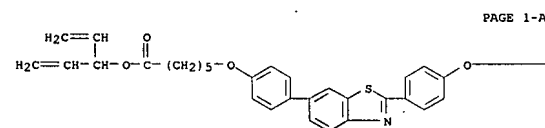
L10 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2005:1092645 CAPLUS
 DOCUMENT NUMBER: 144:264067
 TITLE: Heterocyclic reactive mesogens: synthesis, characterisation and mesomorphic behaviour
 AUTHOR(S): Aldred, Matthew; Vlachos, Panos; Dong, Deyun; Kitney, Stuart; Chung Tsol, W.; O'Neill, Mary; Kelly, Stephen
 CORPORATE SOURCE: Department of Chemistry, University of Hull, Hull, HU6
 SOURCE: TRX, Peop. Rep. China
 Liquid Crystals (2005), 32(8), 951-965
 CODEN: LICRE6; ISSN: 0267-8292
 PUBLISHER: Taylor & Francis Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB Novel heterocyclic and photopolymerizable liquid crystalline materials (reactive mesogens) with smectic phases were synthesized and characterized. A selection of heterocyclic rings, such as benzothiazole, benzothiadiazole and pyrimidine, was incorporated into the aromatic core to control the electrochem./luminescence properties and the structural geometry. Particular emphasis is focused on structure-property relations, in which the variation of mol. structure and its subsequent effect on the liquid crystalline transition temps. were studied.

IT 877207-68-6P 877207-69-7P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

RN 877207-68-6 CAPLUS
 CN Hexanoic acid, 6,6'-(2,6-benzothiazolediylbis(4,1-phenyleneoxy))bis-, bis(1-ethenyl-2-propenyl) ester (9CI) (CA INDEX NAME)

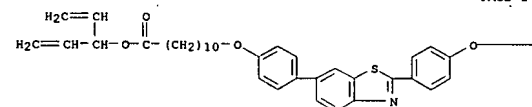


RN 877207-69-7 CAPLUS
 CN Undecanoic acid, 11,11'-(2,6-benzothiazolediylbis(4,1-phenyleneoxy))bis-,

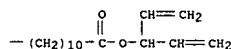
L10 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

bis(1-ethenyl-2-propenyl) ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS

FORMAT RECORD. ALL CITATIONS AVAILABLE IN THE RE

L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:995905 CAPLUS
 DOCUMENT NUMBER: 142:6415
 TITLE: Preparation of indoleacetic acids for the treatment of

INVENTOR(S): Ma, Xin; Cantin, Louis-David; Choi, Soongyu; Clark, Roger; Hentemann, Martin; Rudolph, Joachim; Lavoie, Rico; Zhang, Zhonghua
 PATENT ASSIGNEE(S): Bayer Pharmaceuticals Corporation, USA
 SOURCE: IPC-Int. Appl., 142 pp.

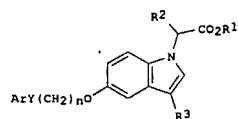
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| WO 2004098498 | A2 | 20041118 | WO 2004-US12959 | 20040428 |
| WO 2004098498 | A3 | 20050728 | | |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, GU, HK, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: BW, CH, GM, KE, LS, MW, NZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2523245 | A1 | 20041118 | CA 2004-2523245 | 20040428 |
| EP 1620088 | A2 | 20060201 | EP 2004-750750 | 20040428 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK | | | | |
| JP 2006524709 | T | 20061102 | JP 2006-513366 | 20040428 |
| US 2006264486 | A1 | 20061123 | US 2005-555024 | 20051026 |
| PRIORITY APPLN. INFO.: | | | US 2003-466143P | 20030428 |
| | | | WO 2004-US12959 | 20040428 |

OTHER SOURCE(S): MARPAT 142:6415

GI



AB Title compds. [I; R1 = H, alkyl, PhCH2; R2, R3 = H, alkyl; Y = O, NR5; R5 = H, alkyl, cycloalkylalkyl; n = 2-4; Ar = (substituted) Ph, heteroaryl],

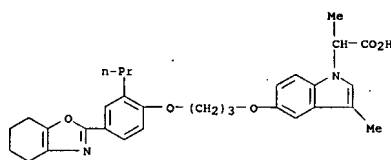
L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

diabetes and related diseases. Ma, Xin; Cantin, Louis-David; Choi, Soongyu; Clark, Roger; Hentemann, Martin; Rudolph, Joachim; Lavoie, Rico; Zhang, Zhonghua
 Bayer Pharmaceuticals Corporation, USA
 IPC-Int. Appl., 142 pp.

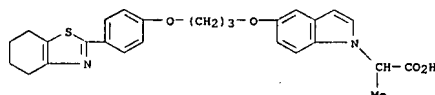
IT 796098-23-2P 796098-41-4P 796098-50-5P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of indoleacetic acids for the treatment of diabetes and related diseases)

RN 796098-23-2 CAPLUS
 CN 1H-Indole-1-acetic acid, α-methyl-5-[3-(2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy)propoxy]- (9CI) (CA INDEX NAME)



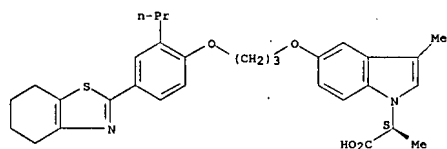
RN 796098-41-4 CAPLUS
 CN 1H-Indole-1-acetic acid, α-methyl-5-[3-(2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy)propoxy]- (9CI) (CA INDEX NAME)



RN 796098-50-5 CAPLUS
 CN 1H-Indole-1-acetic acid, α,3-dimethyl-5-[3-(2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy)propoxy]-, (αS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

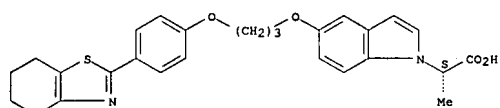
L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



IT 796099-69-9P 796099-71-3P
 RL: PAC (Pharmacological activity); PUR (Purification or recovery); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of indoleacetic acids for the treatment of diabetes and related diseases)

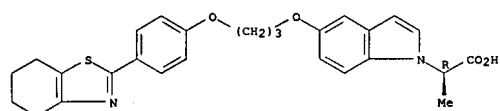
RN 796099-69-9 CAPLUS
 CN 1H-Indole-1-acetic acid, α -methyl-5-[3-[4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]-, (nS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



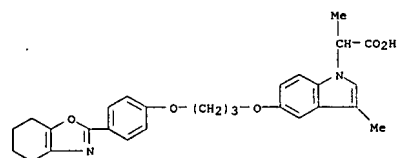
RN 796099-71-3 CAPLUS
 CN 1H-Indole-1-acetic acid, α -methyl-5-[3-[4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]-, (nR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

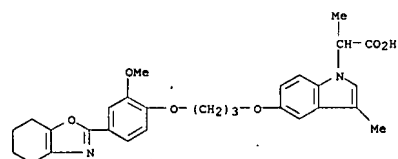


IT 796100-92-0P 796100-96-4P 796101-03-6P
 796101-16-1P 796101-20-7P 796101-57-0P
 796101-64-9P 796101-77-4P 796101-85-4P

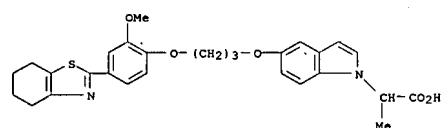
L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 796101-20-7 CAPLUS
 CN 1H-Indole-1-acetic acid, 5-[3-[2-methoxy-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- α ,3-dimethyl- (9CI) (CA INDEX NAME)



RN 796101-57-0 CAPLUS
 CN 1H-Indole-1-acetic acid, 5-[3-[2-methoxy-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- α -methyl- (9CI) (CA INDEX NAME)

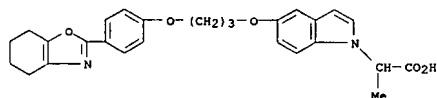


RN 796101-64-9 CAPLUS
 CN 1H-Indole-1-acetic acid, α -methyl-5-[3-[2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)

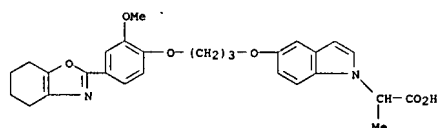
L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

796101-96-7P 796101-99-0P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (prepn. of indoleacetic acids for the treatment of diabetes and related diseases)

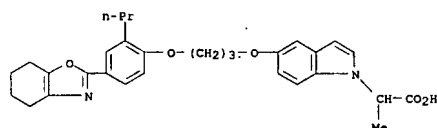
RN 796100-92-0 CAPLUS
 CN 1H-Indole-1-acetic acid, α -methyl-5-[3-[4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)



RN 796100-96-4 CAPLUS
 CN 1H-Indole-1-acetic acid, 5-[3-[2-methoxy-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- α -methyl- (9CI) (CA INDEX NAME)

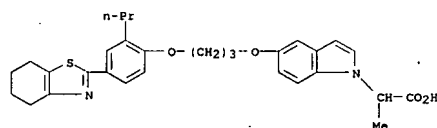


RN 796101-03-6 CAPLUS
 CN 1H-Indole-1-acetic acid, α -methyl-5-[3-[2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)

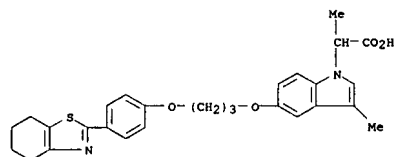


RN 796101-16-1 CAPLUS
 CN 1H-Indole-1-acetic acid, α ,3-dimethyl-5-[3-[4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)

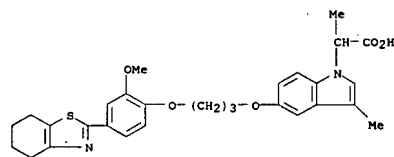
L10 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 796101-77-4 CAPLUS
 CN 1H-Indole-1-acetic acid, α ,3-dimethyl-5-[3-[4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)

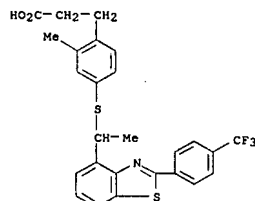


RN 796101-85-4 CAPLUS
 CN 1H-Indole-1-acetic acid, 5-[3-[2-methoxy-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- α ,3-dimethyl- (9CI) (CA INDEX NAME)

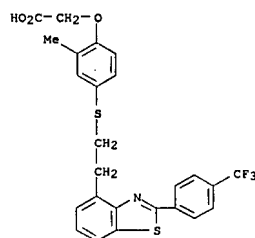


RN 796101-96-7 CAPLUS
 CN 1H-Indole-1-acetic acid, α ,3-dimethyl-5-[3-[2-propyl-4-(4,5,6,7-tetrahydro-2-benzothiazolyl)phenoxy]propoxy]- (9CI) (CA INDEX NAME)

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

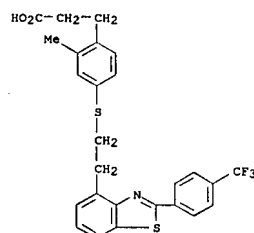


RN 729591-35-9 CAPLUS
 CN Acetic acid, [2-methyl-4-[(2-[2-[4-(trifluoromethyl)phenyl]-4-benzothiazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

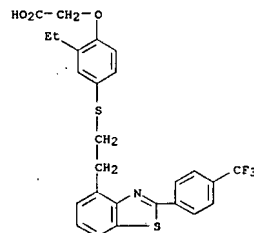


RN 729591-40-6 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[(2-[2-[4-(trifluoromethyl)phenyl]-4-benzothiazolyl]ethyl]thio]- (9CI) (CA INDEX NAME)

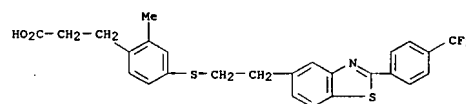
L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 729591-41-7 CAPLUS
 CN Acetic acid, [2-ethyl-4-[(2-[2-[4-(trifluoromethyl)phenyl]-4-benzothiazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

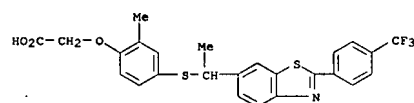


RN 729591-53-1 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[(2-[2-[4-(trifluoromethyl)phenyl]-5-benzothiazolyl]ethyl]thio]- (9CI) (CA INDEX NAME)

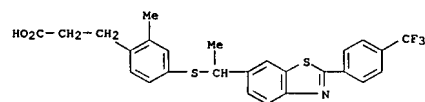


L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

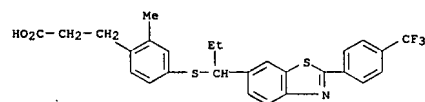
RN 729591-66-6 CAPLUS
 CN Acetic acid, [2-methyl-4-[(1-[2-[4-(trifluoromethyl)phenyl]-6-benzothiazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)



RN 729591-70-2 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[(1-[2-[4-(trifluoromethyl)phenyl]-6-benzothiazolyl]ethyl]thio]- (9CI) (CA INDEX NAME)

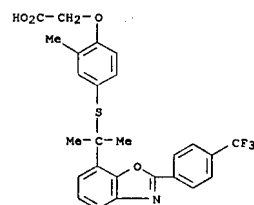


RN 729591-71-3 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[(1-[2-[4-(trifluoromethyl)phenyl]-6-benzothiazolyl]propyl]thio]- (9CI) (CA INDEX NAME)

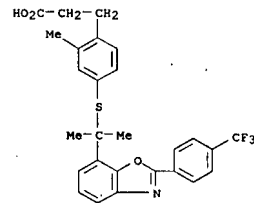


RN 729591-88-2 CAPLUS
 CN Acetic acid, [2-methyl-4-[(1-methyl-1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

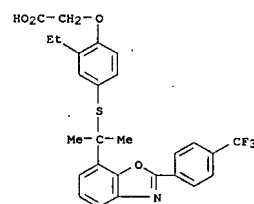
L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 729591-92-8 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[(1-methyl-1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]- (9CI) (CA INDEX NAME)

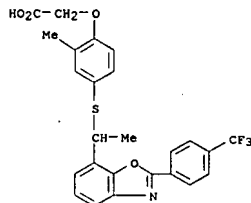


RN 729591-93-9 CAPLUS
 CN Acetic acid, [2-ethyl-4-[(1-methyl-1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

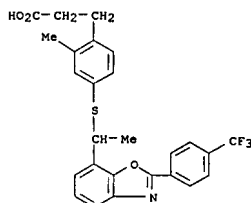


L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 729591-95-1 CAPLUS
 CN Acetic acid, [2-methyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

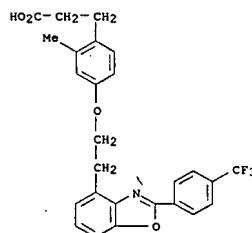
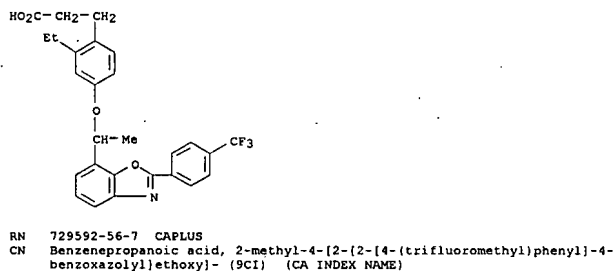


RN 729591-98-4 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]- (9CI) (CA INDEX NAME)



RN 729591-99-5 CAPLUS
 CN Acetic acid, [2-ethyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]- (9CI) (CA INDEX NAME)

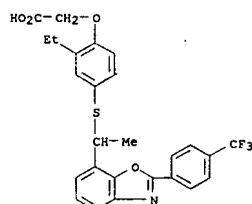
L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



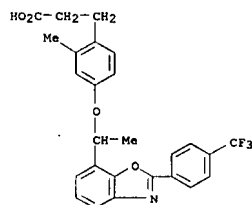
IT 729591-39-3P; Ethyl [2-Methyl-4-[[2-[2-(4-trifluoromethylphenyl)benzothiazol-4-yl]ethyl]sulfanyl]phenoxy]acetate
 729591-57-5P; Methyl 3-[[2-Methyl-4-[[2-[2-(4-trifluoromethylphenyl)benzothiazol-5-yl]ethyl]sulfanyl]phenyl]propionate
 729591-69-9P; Ethyl [2-Methyl-4-[[1-[2-(4-trifluoromethylphenyl)benzothiazol-6-yl]ethyl]sulfanyl]phenoxy]acetate
 729591-73-5P; Methyl 3-[[2-Methyl-4-[[1-[2-(4-trifluoromethylphenyl)benzothiazol-6-yl]propyl]sulfanyl]phenyl]propionate
 729591-91-7P; Ethyl [2-Methyl-4-[[1-methyl-1-[2-(4-trifluoromethylphenyl)benzoxazol-7-yl]ethyl]sulfanyl]phenoxy]acetate
 729591-97-3P; Ethyl [2-Methyl-4-[[1-[2-(4-trifluoromethylphenyl)benzoxazol-7-yl]ethyl]sulfanyl]phenoxy]acetate
 RL; RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (Intermediate; preparation of fused heterocyclic derivs. as PPAR modulators
 for treatment of diabetes mellitus, syndrome X, and other disorders)

RN 729591-39-3 CAPLUS
 CN Acetic acid, [2-methyl-4-[[2-[2-(4-(trifluoromethyl)phenyl]-4-

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

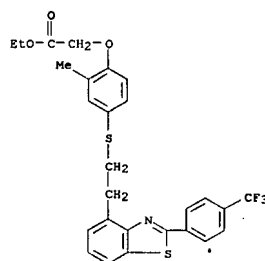


RN 729592-01-2 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethoxy]- (9CI) (CA INDEX NAME)

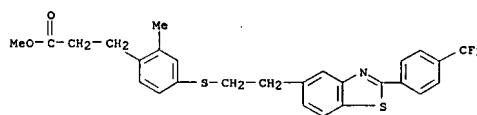


RN 729592-02-3 CAPLUS
 CN Benzenepropanoic acid, 2-ethyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethoxy]- (9CI) (CA INDEX NAME)

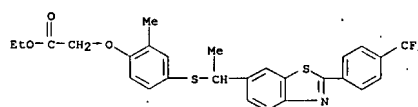
L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 729591-57-5 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[[2-[2-(4-(trifluoromethyl)phenyl)-5-benzothiazolyl]ethyl]thio]-, methyl ester (9CI) (CA INDEX NAME)

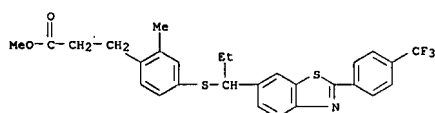


RN 729591-69-9 CAPLUS
 CN Acetic acid, [2-methyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-6-benzothiazolyl]ethyl]thio]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

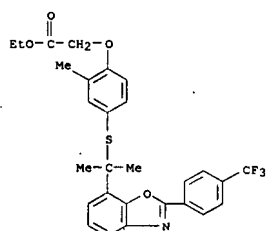


RN 729591-73-5 CAPLUS
 CN Benzenepropanoic acid, 2-methyl-4-[[1-[2-[4-(trifluoromethyl)phenyl]-6-benzothiazolyl]propyl]thio]-, methyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

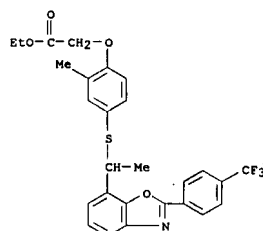


RN 729591-91-7 CAPLUS
 CN Acetic acid, [2-methyl-4-[(1-methyl-1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)



RN 729591-97-3 CAPLUS
 CN Acetic acid, [2-methyl-4-[(1-[2-[4-(trifluoromethyl)phenyl]-7-benzoxazolyl]ethyl]thio]phenoxy]-, ethyl ester (9CI) (CA INDEX NAME)

L10 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

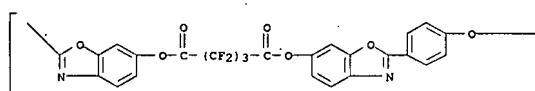
ACCESSION NUMBER: 2004:159428 CAPLUS
 DOCUMENT NUMBER: 140:200659
 TITLE: Polybenzoxazoles with low elastic modulus, their precursors, and optical waveguides using them
 INVENTOR(S): Tominaga, Yumiko
 PATENT ASSIGNEE(S): Sumitomo Bakelite Co., Ltd., Japan
 SOURCE: Jpn. Kok. Tokkyo Koho, 32 pp.
 CODEN: JKOYAT
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------------------------|------|----------|-----------------|----------|
| JP 2004059761 | A | 20040226 | JP 2002-220848 | 20020730 |
| PRIORITY APPLN. INFO.: JP 2002-220848 | | | | |

AB The precursors comprise [CONHY(OR1)(OR2)NHCOX]_n [n = 2-1000; X = C₆H₄O₂C(CF₂)₂CO₂C₆H₄, divalent organic group; Y = C₆H₃O₂C(CF₂)₂CO₂C₆H₃, tetravalent organic group; X and/or Y = the diester group; R₁, R₂ = H, monovalent organic group; i = 1-10]. Thus, bis(4-amino-3-hydroxyphenyl) perfluoropentanedioate was polymerized with isophthaloyl chloride to give a polybenzoxazole precursor, which was applied on a glass plate and heated to give a polybenzoxazole film showing relative permittivity 2.3, 5% weight loss temperature 532°, elastic modulus 3 GPa, and water absorption 0.1%. Optical waveguides showing low optical loss were manufactured using the polybenzoxazoles as clad and core layers.

IT 660832-57-5P 660832-61-1P 660832-72-4P
 RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (manufacture of polybenzoxazoles with low elastic modulus, their precursors, and optical waveguides using them)

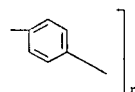
RN 660832-57-5 CAPLUS
 CN Poly[2,6-benzoxazoledioxy(2,2,3,3,4,4-hexafluoro-1,5-dioxo-1,5-pentenediyl)oxy-6,2-benzoxazolediyl-1,4-phenyleneoxy-1,4-phenylene] (9CI) (CA INDEX NAME)



PAGE 1-A

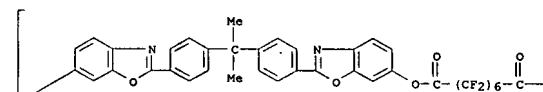
L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

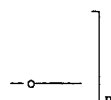


RN 660832-61-1 CAPLUS
 CN Poly[6,2-benzoxazolediyl-1,4-phenylene(1-methylethylidene)-1,4-phenylene-2,6-benzoxazoledioxy(2,2,3,3,4,4,5,5,6,6,7,7,7-dodecafluoro-1,8-dioxo-1,8-octenediyl)oxy] (9CI) (CA INDEX NAME)

PAGE 1-A



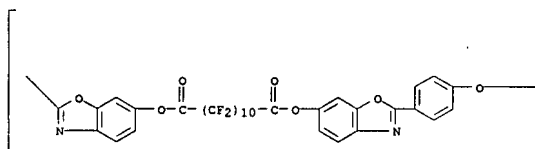
PAGE 1-B



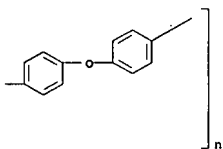
RN 660832-72-4 CAPLUS
 CN Poly[2,6-benzoxazoledioxy(2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11-icosafuoro-1,12-dioxo-1,12-dodecanediyl)oxy-6,2-benzoxazolediyl-1,4-phenyleneoxy-1,4-phenyleneoxy-1,4-phenylene] (9CI) (CA INDEX NAME)

L10 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A



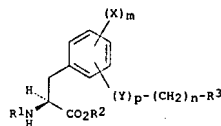
PAGE 1-B



L10 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:633643 CAPLUS
 DOCUMENT NUMBER: 139:180343
 TITLE: Preparation of aromatic amino acid derivatives as anticancer agents
 INVENTOR(S): Endo, Hitoshi; Kanai, Yoshikatsu; Tsujiyama, Kenji; Saito, Kunio
 PATENT ASSIGNEE(S): Japan
 SOURCE: PCT Int. Appl., 124 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|---------------------------|
| WO 2003066574 | A1 | 20030814 | WO 2003-JP1081 | 20030203 |
| M: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| CA 2475434 | A1 | 20030814 | CA 2003-2475434 | 20030203 |
| AU 2003208105 | A1 | 20030902 | AU 2003-208105 | 20030203 |
| EP 1481965 | A1 | 20041201 | EP 2003-703151 | 20030203 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE, SI, SK, TR, FI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | | | |
| US 2005119256 | A1 | 20050602 | US 2003-503125 | 20030203 |
| CN 1630632 | A | 20050622 | CN 2003-803549 | 20030203 |
| PRIORITY APPL. INFO.: | | | | JP 2002-31216 A 20020207 |
| OTHER SOURCE(S): | | | | WO 2003-JP1081 W 20030203 |
| GI | | | | MARPAT 139:180343 |



AB Aromatic amino acid derivs. represented by the following general formula (I)

L10 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 or pharmacol. acceptable salts thereof [wherein R1 represents hydrogen or an amino-protecting group; R2 represents hydrogen, alkyl, aralkyl or aryl; R3 represents (1) halogeno, (2) aryloxy, (3) Ph substituted by lower alkyl, Ph, phenoxy, etc., (4) naphthyl or tetrahydronaphthyl optionally substituted by hydroxy, lower alkoxy or di(lower alkyl)amino, (5) an N-, O- and/or S-contg. unsatd. monocyclic heterocycle group substituted by lower alkyl, Ph, naphthyl or tetrahydroquinolyl, or (6) an N-, O- and/or S-contg. fused heterocycle group, which may be unsatd. or partly satd., optionally substituted by oxo, carboxy, amino, lower alkyl, etc.; X represents halogeno, alkyl or alkoxy; Y represents oxygen or nitrogen; p is 0 or 1; m is 0, 1 or 2; and n is an integer of from 0 to 5] are prepd. These compds. inhibit a transporter (LAT1) of essential amino acids which are one of the main nutrients for cancer cells and induce depletion of

the essential amino acids in the cancer cells, thereby inhibit the proliferation of the cancer cells. Thus, 0.2 mL pyridine was added to a suspension of N-trifluoroacetyl-3-hydroxy-L-phenylalanine Et ester 159, 2-naphthaleneboronic acid 186, mol. sieve 4A 204, and Cu(OAc)2 153 mg in 7 mL CH2Cl2, stirred at room temp. for 16 h in air to give, after workup

and silica gel chromatog., 89% N-trifluoroacetyl-3-(2-naphthoxy)-L-phenylalanine Et ester (II). 0.5 N aq. NaOH was added to a soln. of II (94 mg) in 2 mL THF at 5°, stirred at 5° for 69 h, acidified with 1 N aq. HCl to pH 3-4, and filtered to give 78% 3-(2-naphthoxy)-L-phenylalanine (III). In an assay for a LAT1 inhibitory activity, III and 3-[3-(6-dimethylaminopyridyl)phenoxy]-L-phenylalanine in vitro showed

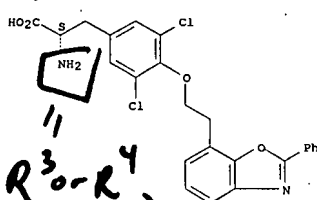
IC50 of 0.1 and 0.01 µg/mL, resp., for inhibiting the uptake of [14C]-L-tyrosine by human prostatic cancer T24 cells.

IT 579524-13-3P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aromatic amino acid derivs. as anticancer agents for inhibiting proliferation of cancer cells by inhibiting essential amino acid transporter (LAT1))

RN 579524-13-3 CAPLUS
 CN L-Tyrosine, 3,5-dichloro-O-[2-(2-phenyl-7-benzoxazolyl)ethyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



Only H, AK, or ring
 Searched by Jason M. Nolan, Ph.D.

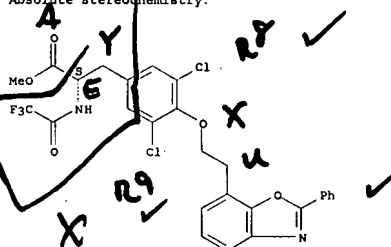
L10 ANSWER 7 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 579526-14-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aromatic amino acid derivs. as anticancer agents for inhibiting

proliferation of cancer cells by inhibiting essential amino acid transporter (LAT1))

RN 579526-14-0 CAPLUS
 CN L-Tyrosine, 3,5-dichloro-O-[2-(2-phenyl-7-benzoxazolyl)ethyl]-N-(trifluoroacetyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

$$E = c(R^3 R^4) - A$$

L10 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:413899 CAPLUS

DOCUMENT NUMBER: 139:7388

TITLE: Liquid crystal alignment layer, display, reactive mesogens and polymers formed from the reactive

mesogen

INVENTOR(S): O'Neill, Mary; Kelly, Stephen Malcolm; Contoret, Adam

Edward Alexander; Richards, Gary James; Coates, David

PATENT ASSIGNEE(S): UK

SOURCE: U.S. Pat. Appl. Publ., 39 pp., Cont.-in-part of U.S.

Ser. No. 898,749.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------|------|----------|-----------------|-------------|
| US 2003099785 | A1 | 20030529 | US 2002-187396 | 20020701 |
| US 7118787 | B2 | 20061010 | | |
| US 2003021913 | A1 | 20030130 | US 2001-898749 | 20010703 |
| | | | GB 2001-15987 | A 20010629 |
| | | | US 2001-898749 | A2 20010703 |
| | | | WO 1999-GB4287 | W 19991216 |

AB A liquid crystal alignment layer comprises an alignment layer, and chemical

bound to the alignment layer, a transport material, for use in displays for electronic apparatus

IT 532984-00-2P 532984-02-4P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(alignment layer: liquid crystal alignment layer for displays and electroluminescent devices)

RN 532984-00-2 CAPLUS

CN Benzoic acid, 4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]-

4-(2-benzothiazolyl)-2,6-dimethoxyphenyl ester, polymer with

2-oxo-2H-1-benzopyran-7-yl 4-[[6-[(2-methyl-1-oxo-2-

propenyl)oxy]hexyl]oxy]benzoate (9CI) (CA INDEX NAME)

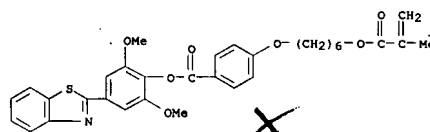
CM 1

CRN 532983-99-6

CMF C32 H33 N O7 S

L10 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

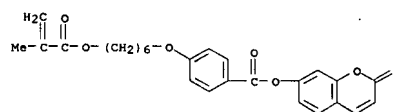
(Continued)



CM 2

CRN 177856-55-2

CMF C26 H26 O7



RN 532984-02-4 CAPLUS

CN Benzoic acid, 4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]-

4-[[6-(4-nonylphenyl)-2-benzothiazolyl]phenyl] ester, polymer with

2-oxo-2H-1-benzopyran-7-yl 4-[[6-[(2-methyl-1-oxo-2-

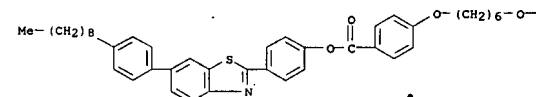
propenyl)oxy]hexyl]oxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 532984-01-3

CMF C45 H51 N O5 S

PAGE 1-A



L10 ANSWER 8 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

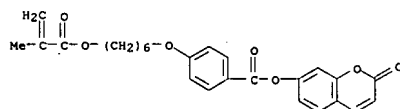
PAGE 1-B



CM 2

CRN 177856-55-2

CMF C26 H26 O7



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L10 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:154391 CAPLUS

DOCUMENT NUMBER: 138:187634

TITLE: Preparation of 2-benzyltetrahydrofuran-2-carboxylic acid derivatives as PPAR agonists for treatment of hyperglycemia, hyperlipidemia, and inflammatory

diseases

INVENTOR(S): Clark, Richard; Matsuura, Fumiyoshi; Emori, Eita; Shinoda, Masanobu; Kasai, Shunji; Yoshitomi, Hideki; Yamazaki, Kazuo; Inoue, Takashi; Miyashita,

Sadakazu;

PATENT ASSIGNEE(S): Hihara, Taro

Eisai Co., Ltd., Japan

SOURCE: PCT Int. Appl., 220 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|------------|
| WO 2003016265 | A1 | 20030227 | WO 2002-JP8325 | 20020816 |
| W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW | | | | |
| RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG | | | | |
| AU 2002325535 | A1 | 20030303 | AU 2002-325535 | 20020816 |
| EP 1452521 | A1 | 20040901 | EP 2002-758850 | 20020816 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK | | | | |
| US 2005014833 | A1 | 20050120 | US 2004-486396 | 20040211 |
| PRIORITY APPLN. INFO.: | | | JP 2001-247540 | A 20010817 |
| | | | WO 2002-JP8325 | W 20020816 |

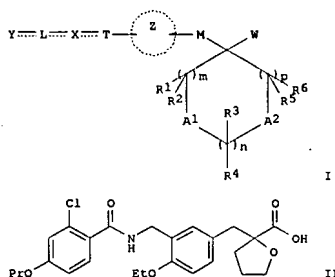
OTHER SOURCE(S):

MARPAT 138:187634

GI

close art

L10 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. I [wherein m, n, and p = independently 0-4; R1-R6 = independently H, OH, CN, halo, NR7R8, (un)substituted alkyl(thio), alkoxy, HO-alkyl(thio), HO-alkoxy, aminoalkyl(thio), halo-alkyl(thio), halo-alkoxy, alkoxyalkyl(thio), alkoxyalkoxy, cycloalkyl(oxy), cycloalkylalkoxy, cycloalkylthio, alkenyl(oxy), alkenylthio, alkynyl(oxy), alkynylthio, aryl(oxy), arylthio, alkylaryl(oxy), alkylarylthio, aralkyl(oxy), or aralkylthio; R7 and R8 = independently H, CN, CHO, (un)substituted (amino)alkyl, HO-alkyl, halo-alkyl, alkoxyalkyl, cycloalkyl, alkenyl, alkynyl, (alkyl)aryl, aralkyl, acyl, or alkoxy-CO; A1 and A2 = independently a single bond, O, S, SO, SO2, (un)substituted amino, or alkenylenyl; L, M, and T = independently a single bond, (un)substituted alkylenyl, alkenylenyl, or alkynylenyl; W = CO2H; X = a single bond, O, OSO2, SO3, (un)substituted amino(thio)carboxy, (thio)carbamate, (thio)carbamoyloxy, (oxy)amino(thio)carbonyl, (amino)(thio)carbamoyl, aminoacyl, or sulfonamido; Y = (un)substituted Ar(Ar); Ar = aromatic ring; ring Z = (un)substituted Ar] and salts, esters, and hydrates thereof are prepared as PPAR (peroxisome proliferator-activated receptor) agonists for the treatment of hyperglycemia, hyperlipidemia, and inflammatory diseases. For example, the acid II was prepared in a multi-step synthesis starting from 2-chloro-4-propoxybenzoic acid and the corresponding amine (prepn given) in DMF in the presence of Et3N and di-Et cyanophosphonate. II showed EC50 of 0.013, 0.038, and 0.005 μ M against PPAR α , PPAR β , and PPAR γ , resp.

IT 499788-79-3P 499788-88-4P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

L10 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:710182 CAPLUS
 DOCUMENT NUMBER: 132:36376
 TITLE: Synthesis of liquid crystalline monomers and side-chain polymers containing 2-phenylbenzoxazole in mesogenic unit
 AUTHOR(S): Kim, Sehoon; Sohn, Jiwon; Park, Soo Young
 CORPORATE SOURCE: Dept. of Fiber and Polymer Science, Seoul National University, Seoul, 151-742, S. Korea
 SOURCE: Bulletin of the Korean Chemical Society (1999), 20(4), 473-477
 CODEN: BKCSDE; ISSN: 0253-2964
 PUBLISHER: Korean Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Direct cyclization between 2-aminophenol part and benzaldehyde counterpart in the presence of lead acetate gave hydroxy-substituted 2-phenylbenzoxazole. From the obtained benzoxazole deriva., benzoxazole-based fluorescent monomers and polymers were prepared and their liquid crystallinity was confirmed.

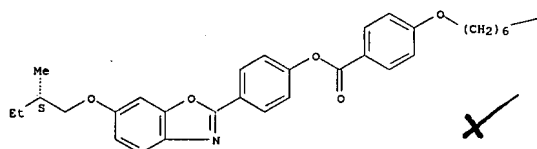
IT 252235-45-3P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and characterization of)

RN 252235-45-3 CAPLUS
 CN Benzoic acid, 4-[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-[[6-[(2S)-2-methylbutoxy]-2-benzoxazolyl]phenyl] ester, homopolymer (9CI) (CA INDEX NAME)

CM 1
 CRN 252235-41-9
 CMF C35 H39 N O7

Absolute stereochemistry.

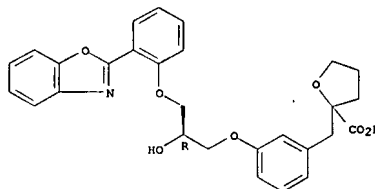
PAGE 1-A



L10 ANSWER 9 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

(Uses)
 (PPAR agonist; prep. of benzyltetrahydrofuran-2-carboxylic acid deriva. as PPAR agonists for treatment of hyperglycemia, hyperlipidemia, and inflammatory diseases)
 RN 499788-79-3 CAPLUS
 CN 2-Furancarboxylic acid, 2-[[[3-[(2R)-3-[(2-(2-benzoxazolyl)phenoxy]-2-hydroxypropoxy]phenyl]methyl]tetrahydro- (9CI) (CA INDEX NAME)

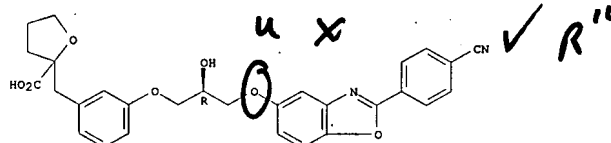
Absolute stereochemistry.



RN 499788-88-4 CAPLUS

CN 2-Furancarboxylic acid, 2-[[[3-[(2R)-3-[(2-(4-cyanophenyl)-5-benzoxazolyl]oxy)-2-hydroxypropoxy]phenyl]methyl]tetrahydro- (9CI) (CA INDEX NAME)

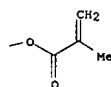
Absolute stereochemistry.



REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
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L10 ANSWER 10 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

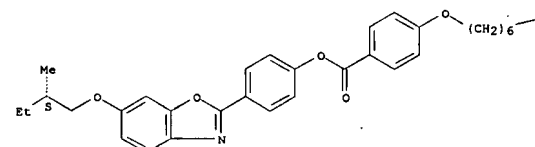
PAGE 1-B



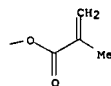
IT 252235-41-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and polymerization of liquid crystalline monomers containing phenylbenzoxazole)
 RN 252235-41-9 CAPLUS
 CN Benzoic acid, 4-[[[6-[(2-methyl-1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-[[6-[(2S)-2-methylbutoxy]-2-benzoxazolyl]phenyl] ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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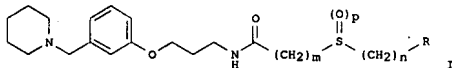
REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE
 FORMAT

L10 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:278518 CAPLUS
 DOCUMENT NUMBER: 128:321542
 TITLE: A novel histamine 2 (H2) receptor antagonist with gastroprotective activity. I. Synthesis and pharmacological evaluation of

N-phenoxypropylacetamide

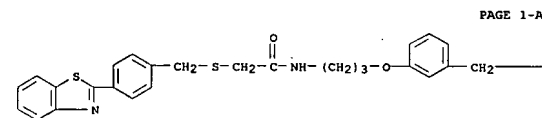
derivatives with thioether function
 Sekine, Yasuo; Hirakawa, Nobuhiko; Kashiwaba, Noriaki;
 Matsumoto, Hajime; Kutsuma, Teruo; Yamaura, Tetsuaki;
 Sekine, Akihiko
 CORPORATE SOURCE: Pharm. Res. Lab., Fujirebio Inc., Tokyo, 192-0031, Japan
 SOURCE: Chemical & Pharmaceutical Bulletin (1998), 46(4), 610-615
 CODEN: CPBTAL; ISSN: 0009-2363
 PUBLISHER: Pharmaceutical Society of Japan
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 128:321542
 GI



AB In an attempt to develop new types of anti-ulcer agents, a series of N-(phenoxypropyl)acetamide derivs. with a thioether moiety, I (R = 4-pyridyl, Ph, 2-naphthyl, etc., m = 1, 3, 5, n = 0, 1, 3, 5, p = 0, 1, 2), and their sulfur-oxidized analogs were synthesized and evaluated for histamine H2-receptor antagonistic activity, Ca antagonistic activity and gastric anti-secretory activity in the lumen-perfused rat. Selected compds. were also tested for gastroprotective activity, which was expected to be based on Ca antagonistic activity. Structure-activity relationships are discussed. As a thioether moiety, -CH2-S(O)p-CH2-Ar (Ar: Ph or furyl) was found to be optimal for the above activities. Especially, N-[3-((3-piperidinomethyl)phenoxy)propyl]acetamide with a benzylsulfinyl, benzylsulfonyl, furfurysulfinyl or furfurysulfonyl group showed potent gastroprotective activity upon oral administration in a rat model. These compds. are candidates for novel anti-ulcer drugs with gastric anti-secretory and gastroprotective activities. 2-Furfurysulfinyl-N-[3-((piperidinomethyl)phenoxy)propyl]-acetamide was the most potent among the compds. tested and was given the code designation FRG-8701.
 IT 207221-26-9P 207221-27-0P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological)

L10 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L10 ANSWER 11 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
 study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
 (prep., antihistaminic, and structure activity relationship of N-(phenoxypropyl)acetamide thioether derivs.)
 RN 207221-26-9 CAPLUS
 CN Acetamide, 2-[[[4-(2-benzothiazolyl)phenyl]methyl]thio]-N-[3-((1-piperidinylmethyl)phenoxy)propyl]- (9CI) (CA INDEX NAME)

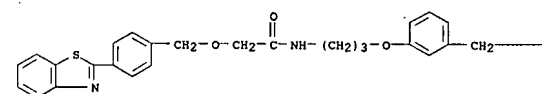


PAGE 1-A



PAGE 1-B

RN 207221-27-0 CAPLUS
 CN Acetamide, 2-[[[4-(2-benzothiazolyl)phenyl]methoxy]-N-[3-((1-piperidinylmethyl)phenoxy)propyl]- (9CI) (CA INDEX NAME)



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PAGE 1-B

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

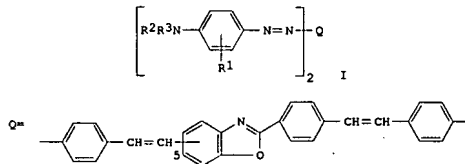
L10 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1994:325759 CAPLUS
 DOCUMENT NUMBER: 120:325759
 TITLE: Dichroic disazo dyes and light-polarizing films containing the same
 INVENTOR(S): Rihoko Misawa, Tsutayoshi; Ogiso, Akira; Ito, Naoto; Imai, Mitsui Toatsu Chemicals, Japan
 PATENT ASSIGNEE(S): Jpn. Kokai Tokkyo Koho, 8 pp.
 SOURCE: CODEN: JKXKXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|-------------|------|----------|-----------------|----------|
| JP 05320530 | A | 19931203 | JP 1992-127056 | 19920520 |
| JP 3100461 | B2 | 20001016 | | |

PRIORITY APPLN. INFO.: JP 1992-127056 19920520

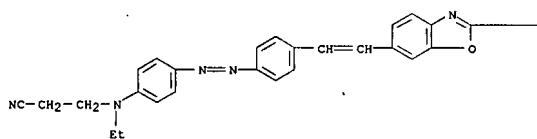
OTHER SOURCE(S): MARPAT 120:325759
 GI



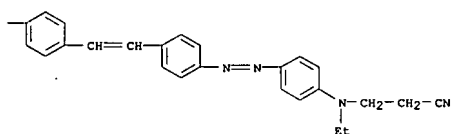
AB The title dyes that can be used with hydrophobic resins have the general formula I (R1 = H, Me, OH, Cl; R2, R3 = (un)substituted C1-3 alkyl, or R2R3 = ring members). Q(NH2)2 (5-bonding) was tetrazotized and coupled with PhNMe2 to give the corresponding I, which was used in a biaxially stretched PET film (100 μm thickness) with polarization (475 nm) 99.5%, storability (80°, 90%RH) ≥500 h, and good dimensional stability.
 IT 155582-06-2P 155582-15-3P
 RL: PREP (Preparation)
 (manufacture of dichroic, manufacture of, for PET polarizing films)
 RN 155582-06-2 CAPLUS
 CN Propanenitrile, 3-[[[4-[[[4-(2-cyanoethyl)ethylamino]phenyl]azo]phenyl]ethenyl]-2-benzoxazolyl]phenyl]ethenyl]phenyl]azo]phenyl]ethylamino]- (9CI) (CA INDEX NAME)

L10 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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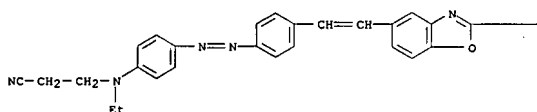


PAGE 1-B



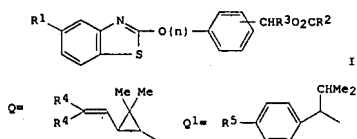
RN 155582-15-3 CAPLUS
 CN Propanenitrile, 3-[[[4-[[[4-[[2-[[4-[[[4-[[2-cyanoethyl]ethylamino]phenyl]azo]phenyl]ethenyl]-2-benzoxazolyl]phenyl]ethenyl]phenyl]azo]phenyl]ethylamino]- (9CI) (CA INDEX NAME)

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L10 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1993:495398 CAPLUS
 DOCUMENT NUMBER: 119:95398
 TITLE: Synthesis and acaricidal activity of novel fluorinated benzothiazolyl pyrethroids
 AUTHOR(S): Chen, Guangming; Chen, Fuheng
 CORPORATE SOURCE: Dep. Appl. Chem., Beijing Agric. Univ., Beijing, 100094, Peop. Rep. China
 SOURCE: Pesticide Science (1992), 36(3), 233-7
 CODEN: PSSCBG; ISSN: 0031-613X
 DOCUMENT TYPE: Journal
 LANGUAGE: English
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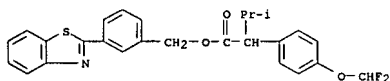


AB A series of novel pyrethroids I (n = 0, 1; R1 = H, F, CF3; R2 = Q, Q1; R3 = H, CN; R4 = Me, Cl; R5 = Cl, F2CHO) containing a benzothiazole ring which replaces the phenoxy substituent in the benzyl ester portion have been synthesized. The compds. prepared were from four types of acid substituent,

and were screened for acaricidal activity against *Tetranychus viennensis*. Several compds. showed good activity at 250 mg/L. As expected, it was found that the highest activity was associated with substitution at the 3-position of the benzyl ring. A fluoro- or trifluoromethyl-substituent in the benzothiazole ring usually enhanced potency. α -Cyano substitution also increased activity.

IT 148929-42-4P 148929-46-8P 148929-50-4P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation and acaricidal activity of)

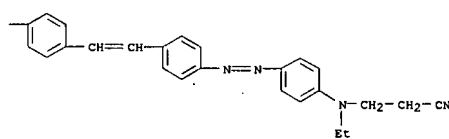
RN 148929-42-4 CAPLUS
 CN Benzenecetic acid, 4-(difluoromethoxy)- α -(1-methylethyl)-, [3-(2-benzothiazolyl)phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 148929-46-8 CAPLUS

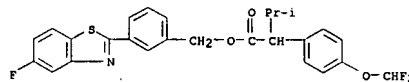
L10 ANSWER 12 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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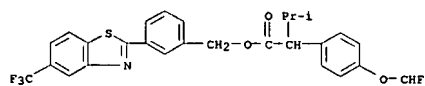


L10 ANSWER 13 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN Benzenecetic acid, 4-(difluoromethoxy)- α -(1-methylethyl)-, [3-(5-fluoro-2-benzothiazolyl)phenyl]methyl ester (9CI) (CA INDEX NAME)



RN 148929-50-4 CAPLUS
 CN Benzenecetic acid, 4-(difluoromethoxy)- α -(1-methylethyl)-, [3-[5-(trifluoromethyl)-2-benzothiazolyl]phenyl]methyl ester (9CI) (CA INDEX NAME)

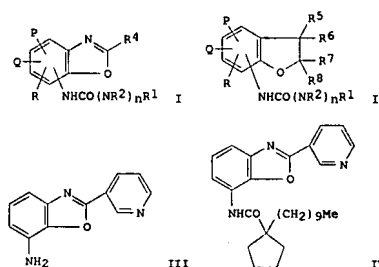


L10 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1993:38913 CAPLUS
 DOCUMENT NUMBER: 118:38913
 TITLE: Preparation of benzoxazoles and dihydrobenzofuran derivatives as cholesterol acyltransferase inhibitors
 INVENTOR(S): Shiota, Tatsuki; Takeyasu, Takumi; Mochizuki, Katsuo, Kenichiro; Tanabe, Hirofumi; Ota, Mikio; Kano, Masatoshi; Yamaguchi, Hisao
 SOURCE: Teijin Ltd., Japan
 PCT Int. Appl., 125 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|-------------|
| WO 9212144 | A1 | 19920723 | WO 1991-JP1793 | 19911227 |
| W: AU, CA, HU, JP, KR, US | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, IT, NL, SE | | | | |
| AU 9191105 | A | 19920817 | AU 1991-91105 | 19911227 |
| AU 652981 | B2 | 19940915 | | |
| EP 632031 | A1 | 19950104 | EP 1992-901873 | 19911227 |
| EP 632031 | B1 | 20000503 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE | | | | |
| HU 68721 | A2 | 19950728 | HU 1993-1866 | 19911227 |
| AT 192446 | T | 20000515 | AT 1992-901873 | 19911227 |
| ES 2145743 | T3 | 20000716 | ES 1992-901873 | 19911227 |
| JP 3095413 | B2 | 20001003 | JP 1992-501774 | 19911227 |
| US 5496853 | A | 19960305 | US 1995-429023 | 19950426 |
| PRIORITY APPLN. INFO.: | | | JP 1990-415443 | A 19901228 |
| | | | JP 1991-29143 | A 19910131 |
| | | | WO 1991-JP1793 | A 19911227 |
| | | | US 1993-78274 | B1 19930622 |

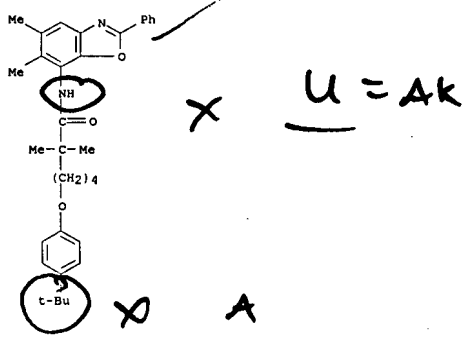
OTHER SOURCE(S): MARPAT 118:38913
 GI

L10 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



AB The title compds. (I, II; R1 = (substituted) cycloalkyl, cycloalkenyl, etc.; R2 = H, C2-8-alkyl; R4 = H, C1-20 alkyl, alkenyl, alkynyl, etc.; R5-R8 = H, C1-20 alkyl, R5R6 or R7R8 form 5-7-membered carbocycle; n = 0, 1; P, Q, R = H, halo, NH2, NO2, cyano, CO2H, OH, C1-20 alkyl etc.), useful in treating hyperlipemia and arteriosclerosis, are prepared. Stirring a mixture of 51 mg amino compound III (preparation given) and 65 mg 1-decylcyclopentarecarbonyl chloride in CH2Cl2 containing Et3N at room temperature gave 35 mg amide IV, which showed IC50 of 8.3 + 10-7M against cholesterol acyltransferase.
 IT 144983-51-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 RN 144983-51-7 CAPLUS
 CN Hexanamide, 6-[4-(1,1-dimethylethyl)phenoxy]-N-(5,6-dimethyl-2-phenyl-7-benzoxazolyl)-2,2-dimethyl- (9CI) (CA INDEX NAME)

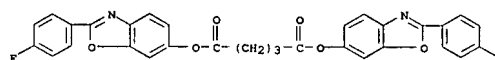
L10 ANSWER 14 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L10 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1992:470556 CAPLUS
 DOCUMENT NUMBER: 117:70556
 TITLE: Nucleophilic displacement method for synthesis of non-rigid polybenzoxazoles or polybenzimidazoles or polybenzothiazoles
 INVENTOR(S): Inbasekaran, Muthiah N.; Mullins, Michael J.
 PATENT ASSIGNEE(S): Dow Chemical Co., USA
 SOURCE: U.S., 16 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|-------------|
| US 5104960 | A | 19920414 | US 1989-313936 | 19890222 |
| US 5194562 | A | 19930316 | US 1992-819419 | 19920110 |
| US 5216110 | A | 19930601 | US 1992-819421 | 19920110 |
| WO 9314071 | A1 | 19930722 | WO 1992-US165 | 19920110 |
| W: CA, JP, KR | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE | | | | |
| EP 623115 | A1 | 19941109 | EP 1992-906156 | 19920110 |
| R: BE, DE, FR, GB, IT, NL | | | | |
| PRIORITY APPLN. INFO.: | | | US 1989-313936 | A3 19890222 |
| | | | WO 1992-US165 | W 19920110 |

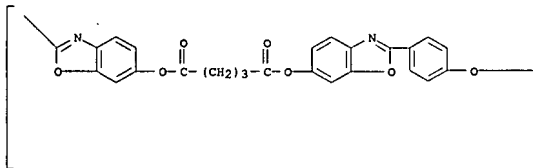
AB The title polymers are prepared by contacting an azole-containing compound (bearing an azole ring, a 2-position-bonded aryl group, and an activated leaving group) and a displacing compound (bearing an inert non-electron-withdrawing group linked to a N-containing nucleophilic group and a removable counter moiety to the nucleophilic group).
 the 2-(4-fluorophenyl)-6-(trimethylsilyl ether)benzoxazole was polymerized in the presence of Ph2SO2, PhCl, and CsF catalyst to give a polymer with with 1% weight loss at 514".
 IT 142629-49-0P
 RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and polymerization of)
 RN 142629-49-0 CAPLUS
 CN Pentanedioic acid, bis[2-(4-fluorophenyl)-6-benzoxazolyl] ester (9CI) (CA INDEX NAME)



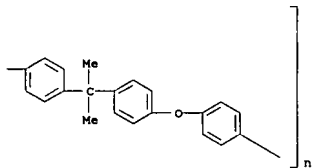
IT 142630-05-5P 142675-48-7P
 RL: PREP (Preparation)
 (preparation of, heat-resistant)
 RN 142630-05-5 CAPLUS
 CN Poly[2,6-benzoxazoledioxy(1,5-dioxo-1,5-pentanedioyl)oxy-6,2-

L10 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
benzoxazolidiyl-1,4-phenyleneoxy-1,4-phenylene(1-methylethylidene)-1,4-phenyleneoxy-1,4-phenylene) (9CI) (CA INDEX NAME)

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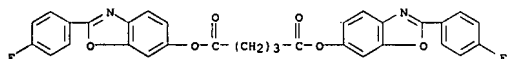
PAGE 1-B



RN 142675-48-7 CAPLUS
CN Pentanedioic acid, bis[2-(4-fluorophenyl)-6-benzoxazoly] ester, polymer with 4,4'-(1-methylethylidene)bis[phenol] (9CI) (CA INDEX NAME)

CM 1

CRN 142629-49-0
CMF C31 H20 F2 N2 O6

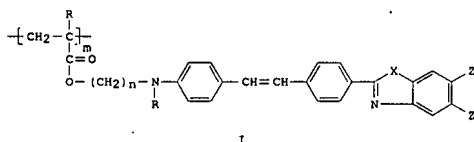


L10 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN

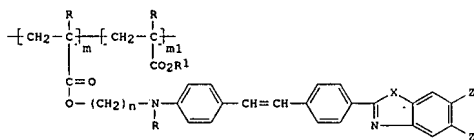
ACCESSION NUMBER: 1991:690754 CAPLUS
DOCUMENT NUMBER: 115:290754
TITLE: Side chain polymers exhibiting nonlinear optical response and devices employing them
INVENTOR(S): Allen, Diane E.; Demartino, Ronald N.
PATENT ASSIGNEE(S): Hoechst Celanese Corp., USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|------|----------|-----------------|----------|
| US 4978476 | A | 19901218 | US 1990-504193 | 19900402 |
| PRIORITY APPLN. INFO.: | | | US 1990-504193 | 19900402 |

GI



I



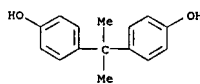
II

AB The title polymers are described by the general formulas I and II (R = H or Cl-4 alkyl; R1 = Cl-6 alkyl; m, ml, m2, n are integers; m ≥ 5; ml + m2 ≥ 10; 4n = 1-20; X = S, O, or NR; Z = H, CN, NO2, or CH3).
Optical devices (light switches, modulators, and frequency doublers) employing the polymers, which may exhibit 2nd and 3rd order nonlinear susceptibilities.
IT 136775-85-4P 136775-93-4P 137667-47-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, in nonlinear optical material preparation)
RN 136775-85-4 CAPLUS

L10 ANSWER 15 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

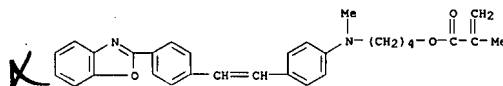
CM 2

CRN 80-05-7
CMF C15 H16 O2

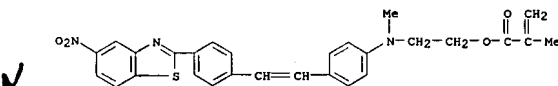


L10 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

CN 2-Propenoic acid, 2-methyl-, 4-[[4-[2-[4-(2-benzoxazoly)]phenyl]ethenyl]phenyl]methylamino]butyl ester (9CI) (CA INDEX NAME)



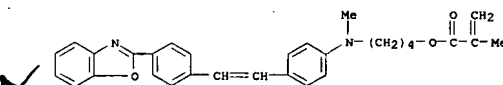
RN 136775-93-4 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-[methyl[4-[2-[4-(5-nitro-2-benzothiazoly)]phenyl]ethenyl]phenyl]amino]ethyl ester (9CI) (CA INDEX NAME)



RN 137667-47-1 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 4-[[4-[2-[4-(2-benzoxazoly)]phenyl]ethenyl]phenyl]methylamino]butyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 136775-85-4
CMF C30 H30 N2 O3

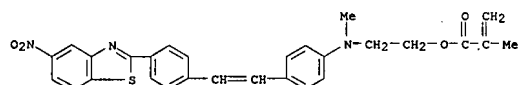


IT 137667-44-8P 137667-45-9P 137691-08-8P
RL: PREP (Preparation)
(preparation of, as nonlinear optical material)
RN 137667-44-8 CAPLUS
CN 2-Propenoic acid, 2-methyl-, 2-[methyl[4-[2-[4-(5-nitro-2-benzothiazoly)]phenyl]ethenyl]phenyl]amino]ethyl ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 136775-93-4
CMF C28 H25 N3 O4 S

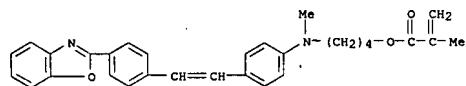
L10 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 137667-45-9 CAPLUS
 CN 2-Propenoic acid, 2-methyl-,
 4-[[4-(2-{4-(2-benzoxazolyl)phenyl}ethenyl)ph
 enyl]methylamino]butyl ester, polymer with ethyl 2-methyl-2-propenoate
 (9CI) (CA INDEX NAME)

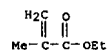
CM 1

CRN 136775-85-4
 CMF C30 H30 N2 O3



CM 2

CRN 97-63-2
 CMF C6 H10 O2

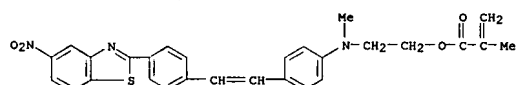


RN 137691-08-8 CAPLUS
 CN 2-Propenoic acid, 2-methyl-, 2-[methyl[4-[2-[4-(5-nitro-2-
 benzothiazolyl)phenyl]ethenyl]phenyl]amino]ethyl ester, polymer with
 2-propenoic acid (9CI) (CA INDEX NAME)

CM 1

CRN 136775-93-4
 CMF C28 H25 N3 O4 S

L10 ANSWER 16 OF 16 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



CM 2

CRN 79-10-7
 CMF C3 H4 O2

